



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 279 227 A3

EUROPEAN PATENT APPLICATION

Application number: 88101080.5

Int. Cl.⁵: G09G 1/16, G09G 5/36

Date of filing: 26.01.88

Priority: 12.02.87 US 13848

Date of publication of application:
24.08.88 Bulletin 88/34

Designated Contracting States:
DE FR GB IT

Date of deferred publication of the search report:
17.04.91 Bulletin 91/16

Applicant: International Business Machines

Corporation
Old Orchard Road
Armonk, N.Y. 10504(US)

Inventor: Lumelsky, Leon
30 Gaxton Road
Stamford Connecticut 06905(US)

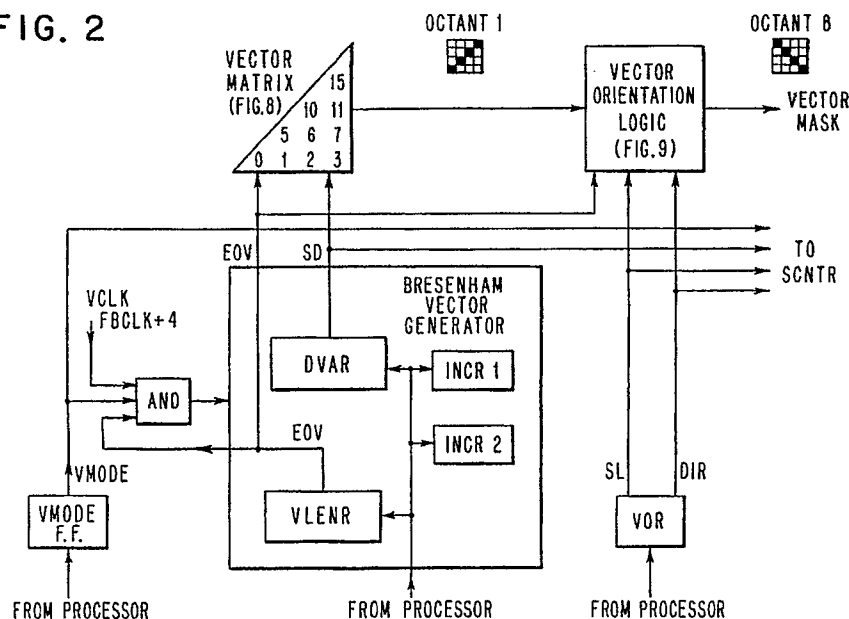
Representative: Grant, Iain Murray
IBM United Kingdom Limited Intellectual
Property Department Hursley Park
Winchester Hampshire SO21 2JN(GB)

Raster display vector generator.

A vector generator for use with an all-points-addressable frame buffer capable of the non-word aligned access, simultaneously, of a square M by N array of pixels providing fast vector drawing independently of vector slope and position in the whole screen area of an attached display monitor. The vector generator utilises a triangular logic matrix together with a line drawing unit to generate M

vector bits lying in an M by N square matrix of the screen of an attached monitor in one memory cycle of the frame buffer and uses the generated matrix to generate a direct mask for the frame buffer whereby the M bit vector may be stored in a single memory cycle.

FIG. 2





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 88 10 1080

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-4 642 625 (TSUNEHIRO et al.) * abstract; column 1, lines 10-65; figures 2,4,8 * ---	1-3	G 09 G 1/16 G 09 G 5/36
A	EP-A-0 164 880 (AMD) * abstract; page 1, lines 21-32; page 4, line 28 - page 9, line 12; page 10, lines 16-28; figures 2,6 * ---	1	
A	US-A-4 580 236 (TSUJIOKA et al.) * abstract; column 1, line 59 - column 7, line 18; figures 1,2,4 * ---	1	
A	WO-A-8 500 679 (RAMTEK) * abstract; page 7, line 8 - page 8, line 20; figure 1 * ---	1	
D,A	US-A-3 906 480 (SCHWARTZ et al.) * abstract; figures 2,3,9; column 3, line 64 - column 5, line 42 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 09 G H 03 K
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 18-01-1991	Examiner SAAM C A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			